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PATENT  
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE  
(Our Case No. 05-583)

In re Application of: )  
Gicquel, et al. )  
Serial No.: 10/541970 ) Examiner: TBD  
Filed: July 11, 2005 ) Group Art Unit: TBD  
For: High-Speed Diamond Growth Using a )  
Microwave Plasma in Pulsed Mode )

**TRANSMITTAL LETTER**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

In regard to the above identified application.

1. We are transmitting herewith the attached:
  - a) U.S. PTO 1449 Form
  - b) Copies of 11 references; and
  - c) Return Postcard.
2. With respect to fees:
  - a) No fees are due at the present time.
  - b) General Authorization: Please charge any underpayment or credit any overpayment our Deposit Account No. 13-2490.
3. CERTIFICATE OF MAILING UNDER 37 CFR § 1.8: The undersigned hereby certifies that this Transmittal Letter and the paper, as described in paragraph 1 hereinabove, are being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on this 23<sup>rd</sup> day of March, 2006.

Date: March 23, 2006

Respectfully submitted,

Bradley W. Crawford  
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Registration No. 50,494

FORM PTO-1449  
(Rev. 2-32)

U.S. Department of Commerce  
Patent and Trademark Office

Atty. Docket No.

05-583

Serial No.

10/541,970

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use several sheets if necessary)

**Applicant:**

Gicquel, et al.

**Filing Date:**

July 11, 2005

**Group:**

TBD

**U.S. PATENT DOCUMENTS**

| Examiner Initial |    | Document Number | Date           | Name                | Class | Subclass | Filing Date if Appropriate |
|------------------|----|-----------------|----------------|---------------------|-------|----------|----------------------------|
|                  | 1. | 6,200,183 B1    | March 13, 2001 | Badzian, et al.     | 445   | 24       |                            |
|                  | 2. | 6,261,424 B1    | July 17, 2001  | Goncharenko, et al. | 204   | 192.38   |                            |

**FOREIGN PATENT DOCUMENTS**

|  |    | Document Number | Date          | Country | Class | Subclass | Translation |    |
|--|----|-----------------|---------------|---------|-------|----------|-------------|----|
|  |    |                 |               |         |       |          | Yes         | No |
|  | 3. | 0 582 397 A2    | July 16, 1993 | EP      |       |          |             |    |
|  | 4. | 0 635 584 A1    | July 14, 1994 | EP      |       |          |             |    |
|  | 5. | WO 01/96633 A1  | June 14, 2001 | PCT     |       |          |             |    |
|  | 6. | WO 01/96634 A1  | June 14, 2001 | PCT     |       |          |             |    |

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc).**

|  |     |   |
|--|-----|---|
|  | 7.  | Gicquel, et al., <i>Journal of Applied Physics</i> , June 15, 1998, Vol. 83, No. 12, pp. 7504-7521.   |
|  | 8.  | Gicquel, et al., <i>Materials Research</i> , 2003, Vol. 6, No. 1 pp. 25-37.   |
|  | 9.  | Gordon, et al., <i>Journal of Applied Physics</i> , February 1, 2001, Vol. 89, No. 3, pp. 1544-1549.  |
|  | 10. | Hassouni, et al., <i>Plasma Sources Science and Technology</i> , 2001, Vol. 10, pp. 61-75.  |
|  | 11. | Lombardi, et al., <i>Journal of the Electrochemical Society</i> , 2003, Vol. 150, No. 5, pp. C311-C319.   |
|  | 12. | Lombardi, et al., "Diagnostics and Modeling of Moderate Pressure Microwave H <sub>2</sub> /CH <sub>4</sub> Plasmas Obtained Under Pulsed Mode" paper, 2001. |
|  | 13. | Silva, et al., <i>Diamond and Related Materials</i> , 1996, Vol. 5, pp. 338-344.  |

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication.